

Virginia Title V Operating Permit

Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9 VAC 5-80-50 through 9 VAC 5-80-305 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name:	Marine Corps Base, Quantico
Facility Name:	Marine Corps Base, Quantico
Facility Location:	3250 Catlin Avenue Quantico, Virginia 22134-5001
Registration Number:	70267
Permit Number:	NVRO70267

September 2, 2003

Effective Date

Sepetember 2, 2008

Expiration Date

Robert G. Burnley

Director, Department of Environmental Quality

Signature Date

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Permit Conditions, 51 pages

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I. Facility Information

Permittee

Commander
Marine Corps Base, Quantico
3250 Catlin Avenue
Quantico, Virginia 22134-5001

Responsible Official

Colonel J. M. Lowe
Commander, Marine Corps Base Quantico

Facility

Marine Corps Base, Quantico
Quantico, Virginia 22134-5001

Contact Person

Mr. Bruce Frizzell
Head, Natural Resources and Environmental Affairs Branch (B046)
(703) 784-4030

AIRS Identification Number: 51-153-00010

Facility Description: SIC Code 9711 – [National Security] –

Marine Corps Base, Quantico is located in parts of Prince William, Stafford and Fauquier counties. It covers a property area of 60,436 acres and employs about 11,000 military and civilian employees. Part of the base is also used for the FBI Academy, but it is considered a separate source (Registration No. 40368). There are various activities at the base, which are subject to Virginia air regulations. Air permits have been issued for the five boilers at the central heating plant, two boilers at Camp Barrett building, one of the emergency generators at building 3300 and a permit for reasonably available control technology (RACT) requirements. There are also about 102 parts washers (cold solvent degreasers), five large storage tanks, six paint spray booths, six other large emergency generators, a gas compressor at the natural gas vehicle refueling facility, and nine small oil-fired boilers that are subject to the regulations. The fuel farm is conditionally exempt from the regulations. The two gasoline and jet fuel loading racks are exempt as the facility is not a gasoline terminal. Only one of the two military gasoline service stations is included in the permit, since the other is not restricted to military personnel use, but available to their families and retirees. In addition, there are numerous minor sources, including smaller oil-, gas- or propane-fired boilers, storage tanks, minor woodworking operations, and three landfills which are considered insignificant sources.

II. Emission Units

Equipment to be operated consists of:

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
Fuel Burning Equipment – Central Heating Plant							
2012-1 (boiler #1)	001	Combustion Engineering	61.13 x10 ⁶ Btu/hr	(switch to No. 2 oil)	-	-	4/17/03, and RACT 5/24/00 condition 3
2012-2 (boiler #2)	002	Combustion Engineering	61.13 x10 ⁶ Btu/hr	(switch to No. 2 oil)	-	-	4/17/03, and RACT 5/24/00 condition 3
2012-3 (boiler #3)	003	Todd Combustion; 1994	84 x10 ⁶ Btu/hr	Low NOx burner	3	NO ₂	4/17/03, and RACT 5/24/00 condition 4
2012-4 (boiler #4)	004	Todd Combustion; 1994	114 x10 ⁶ Btu/hr	Low NOx burner and Flue gas recirculation	4	NO ₂	4/17/03, and RACT 5/24/00 condition 5
2012-5 (boiler #5)	005	Todd Combustion; 1994	114 x10 ⁶ Btu/hr	Low NOx burner and Flue gas recirculation	4	NO ₂	4/17/03, and RACT 5/24/00 condition 5
Fuel Burning Equipment – Camp Barrett Heating Plant							
24162-1	014	Engineering Co. ELX-15; 1988	22 x10 ⁶ Btu/hr	-	-	-	6/28/02 and RACT 5/24/00 condition 9
24162-2	015	Engineering Co. ELX-15; 1988	22 x10 ⁶ Btu/hr	-	-	-	6/28/02 and RACT 5/24/00 condition 9
Fuel Burning Equipment – Other Small Distillate Oil-fired Boilers							
2077		Iron Fireman model 35-5-400	3.35 x10 ⁶ Btu/hr	-	-	-	5/24/00 (RACT)
24126		Burnham model 4W450A5	3.015 x10 ⁶ Btu/hr	-	-	-	5/24/00 (RACT)
27200		Burnham model 4FW34550	2.15 x10 ⁶ Btu/hr	-	-	-	5/24/00 (RACT)
27219		York Shipley model 5PHV602	2.009 x10 ⁶ Btu/hr	-	-	-	5/24/00 (RACT)
27240-1		Burnham model FDO/15	2.937 x10 ⁶ Btu/hr	-	-	-	5/24/00 (RACT)
3247-1		Cleaver Brooks model FLX100	4.67 x10 ⁶ Btu/hr	-	-	-	5/24/00 (RACT)
3247-2		Heat Energy HN500-PE-2400	2.4 x10 ⁶ Btu/hr	-	-	-	5/24/00 (RACT)
3247-3		Heat Energy HN500-PE-2400	2.4 x10 ⁶ Btu/hr	-	-	-	5/24/00 (RACT)
3500		Burnham model 4FW450GP	3.015 x10 ⁶ Btu/hr	-	-	-	5/24/00 (RACT)
Process A - Diesel Engines (for Emergency Generators)							
3300	23	Caterpillar – 3512; 1994	825 KW	-	-	-	12/27/94
2012		Kato Light - D900FRZ4	900 KW	-	-	-	-

3280		Spectrum Det. Diesel 1000 DS	1000 KW	-	-	-	-
3255-1		New Age Stamford, SC534E	625 KW	-	-	-	-
3255-2		New Age Stamford, SC534E	625 KW	-	-	-	-
Sewage Pt		Kato Light, model D500FRZ4	500 KW	-	-	-	-
Water Pt.		Kato Light, model D800FRZ4	800 KW	-	-	-	-
Process B – Gas Compressor (engine)							
2013		Caterpillar – G3304NA; 1994	95 bhp	-	-	-	-
Process C – Paint Spray Booths							
4		Paint Booth	-	-	-	-	-
2013P		Paint Booth	-	-	-	-	-
2101		Paint Booth	-	-	-	-	-
2103		Paint Booth	-	-	-	-	-
2112		Paint Booth	-	-	-	-	-
3252		Paint Booth	-	-	-	-	-
Process D – Cold Solvent Degreasing – 102 Aggregated Safety Kleen Part Washers							
PW		(17) Green Machine, model 23 premium solvent 150	12 gallons, each	-	-	-	-
PW		(18) Green Machine, model 33 premium solvent 150	17 gallons, each	-	-	-	-
PW		(26) Waste Min. Machine, model 34, premium solv. 150	26 gallons, each	-	-	-	-
PW		(19) Waste Min. Machine, model 44, premium solv. 150	34 gallons, each	-	-	-	-
PW		(14) Portable parts cleaner, model 14, premium solv. 150	5 gallons, each	-	-	-	-
PW		(8) Immersion Cleaner, model 110, solv. Monoethanolomine	5 gallons, each	-	-	-	-
Process E – Storage Tanks (NSPS)							
2012-T1		Above ground tank, No. 2 oil	125,000 gallons	-	-	-	4/17/03
2012-T2		Above ground tank, No. 2 oil	125,000 gallons	-	-	-	4/17/03
24162-T1		Underground tank, No. 6 oil	20,000 gallons	-	-	-	6/28/02
24162-T2		Underground tank, No. 6 oil	20,000 gallons	-	-	-	6/28/02
3300-T1		Underground tank, Diesel fuel	30,000 gallons	-	-	-	12/27/94
Process F – Building 27263, Fuel Farm – Storage Tanks (non-NSPS)							
27263-A		Above ground tank, No.2/Diesel	75,000 gal. tank	-	-	-	-
27263-B		Above ground tank, No.2/Diesel	75,000 gal. tank	-	-	-	-
27263-C		Above ground tank, No.2/Diesel	75,000 gal. tank	-	-	-	-

27263-F		Above ground tank, No.2/Diesel	75,000 gal. tank	-	-	-	-
27263-D		Above ground tank, No.2/Diesel	25,000 gal. tank	-	-	-	-
27263-E		Above ground tank, No.2/Diesel	25,000 gal. tank	-	-	-	-
27263-G		Above ground tank, Gasoline	12,500 gal. tank	-	-	-	-
27263-H		Above ground tank, Gasoline	25,000 gal. tank	-	-	-	-
Process G – Building 2056 – Gasoline Service Station							
2056-2		Stage I and II vapor recovery	10,000 gal. tank	-	-	-	-
2056-3		Stage I and II vapor recovery	12,000 gal. tank	-	-	-	-

The Size/Rated capacity [and PCD efficiency] is provided for informational purposes only, and is not an applicable requirement.

III. Fuel Burning Equipment Requirements - (emission units ID# 2012-1 (boiler #1), 2012-2 (boiler #2), 2012-3 (boiler #3), 2012-4 (boiler #4), 2012-5 (boiler #5)) - Building 2012 - Central Heating Plant

A. Limitations

1. Nitrogen oxide (NO_x) emissions from boiler #3 shall be controlled by low NO_x burners. NO_x emissions from boilers #4 and #5 shall be controlled by low NO_x burners and flue gas recirculation.
(9 VAC 5-80-110 and Condition 4 of 4/17/2003 Permit)
2. Sulfur Dioxide (SO_2) emissions from the combustion of fuel oil in boilers #1, #2, #3, #4 and #5 shall be controlled by burning only low sulfur distillate oil with a 0.5% maximum sulfur content.
(9 VAC 5-80-110 and Condition 5 of 4/17/2003 Permit)
3. The approved fuel for boilers #1 and #2 is distillate oil. The approved fuels for boilers #3, #4, and #5 are natural gas and distillate oil. Distillate oil is defined as fuel oil that meets the specifications for fuel oil numbers 1 or 2 under the ASTM D396-87, 89, 90, 92, 96, or 98 "Standard Specification for Fuel Oils". A change in the fuels may require a permit to modify and operate.
(9 VAC 5-80-110 and Condition 6 of 4/17/2003 Permit)
4. Boilers #1 and #2 shall consume no more than a combined total of 1,814,000 gallons of distillate oil per year, calculated monthly as the sum of each consecutive 12 month period. Boiler #3 shall consume no more than 640,000 gallons of distillate oil per year, calculated monthly as the sum of each consecutive 12 month period. Boilers #4 and #5 shall consume no more than a combined total of 1,420,000 gallons of distillate oil per year, calculated monthly as the sum of each consecutive 12 month period. Additionally, boilers #1, #2, #3, #4 and #5 shall consume no more than a combined total of 3,330,000 gallons of distillate oil per year, calculated monthly as the sum of each consecutive 12 month period.
(9 VAC 5-80-110 and Condition 8 of 4/17/2003 Permit)
5. Boiler #3 shall consume no more than 387.2×10^6 cubic feet of natural gas per year, calculated monthly as the sum of each consecutive 12 month period. Boilers #4 and #5 shall consume no more than a combined total of 572.1×10^6 cubic feet of natural gas per year, calculated monthly as the sum of each consecutive 12 month period.
(9 VAC 5-80-110 and Condition 9 of 4/17/2003 Permit)

6. The nitrogen oxide (as NO₂) emissions from each of the boilers #1 and #2 in Building 2012 (Central Heating Plant) shall not exceed the emission limit of 0.25 lbs/10⁶ Btu heat input averaged on a daily basis.
(9 VAC 5-50-110 and Condition 3 of 5/24/2000 Permit)
7. The NO_x emissions (as NO₂) from boiler #3 shall not exceed 0.09 lbs/10⁶ Btu heat input averaged on a daily basis while firing natural gas, and 0.10 lbs/10⁶ Btu heat input averaged on a daily basis while firing distillate oil.
(9 VAC 5-50-110 and Condition 4 of 5/24/2000 Permit)
8. The NO_x emissions (as NO₂) from boiler #4 and boiler #5 shall not exceed 0.10 lbs/10⁶ Btu heat input averaged on a daily basis while burning either natural gas or distillate oil.
(9 VAC 5-50-110 and Condition 5 of 5/24/2000 Permit)
9. Short-term emissions from the operation of boiler #1 or #2 shall not exceed the limits specified below:

Total Suspended Particulate	0.92 lbs/hr
PM-10	0.46 lbs/hr
Sulfur Dioxide	32.78 lbs/hr
Nitrogen Oxides (as NO ₂)	15.28 lbs/hr
Carbon Monoxide	1.85 lbs/hr
Volatile Organic Compounds	1.39 lbs/hr

(9 VAC 5-80-110 and Condition 10 of 4/17/2003 Permit)

10. Combined emissions from the operation of boilers #1 and #2 shall not exceed the limits specified below:

Total Suspended Particulate	1.8 tons/yr
PM-10	0.9 tons/yr

Sulfur Dioxide	64.4 tons/yr
Nitrogen Oxides (as NO ₂)	31.3 tons/yr
Carbon Monoxide	3.6 tons/yr
Volatile Organic Compounds	2.7 tons/yr

Compliance with the emission limits contained in this condition shall be determined by compliance with Condition number III.A.4. Also, records of DEQ-approved emission factors, equations and throughput data shall be maintained to calculate annual emissions for each consecutive 12 month period.

(9 VAC 5-80-110 and Condition 11 of 4/17/2003 Permit)

11. Emissions from the operation of boiler #3 shall not exceed the limits specified below while burning natural gas:

Total Suspended Particulate	0.90 lbs/hr	2.0 tons/yr
PM-10	0.45 lbs/hr	1.0 tons/yr
Sulfur Dioxide	1.35 lbs/hr	3.0 tons/yr
Nitrogen Oxides (as NO ₂)	8.08 lbs/hr	18.0 tons/yr
Carbon Monoxide	14.19 lbs/hr	31.5 tons/yr
Volatile Organic Compounds	0.27 lbs/hr	0.6 tons/yr

Compliance with NO₂ emission limit shall be based on NO_x CEM data. Compliance with the other emission limits contained in this condition shall be determined by compliance with Condition number III.A.5. Also, records of DEQ-approved emission factors, equations and throughput data shall be maintained to calculate annual emissions for each consecutive 12 month period.

(9 VAC 5-80-110 and Condition 12 of 4/17/2003 Permit)

12. Emissions from the operation boiler #3 shall not exceed the limits specified below while burning distillate oil:

Total Suspended Particulate	4.99 lbs/hr	2.5 tons/yr
PM-10	2.49 lbs/hr	1.3 tons/yr
Sulfur Dioxide	43.50 lbs/hr	22.7 tons/yr
Nitrogen Oxides (as NO ₂)	8.75 lbs/hr	4.4 tons/yr
Carbon Monoxide	13.48 lbs/hr	6.8 tons/yr
Volatile Organic Compounds	0.35 lbs/hr	0.2 tons/yr

Compliance with NO₂ emission limit shall be based on NO_x CEM data. Compliance with the other emission limits contained in this condition shall be determined by compliance with Condition number III.A.4. Also, records of DEQ-approved emission factors, equations and throughput data shall be maintained to calculate annual emissions for each consecutive 12 month period.

(9 VAC 5-80-110 and Condition 13 of 4/17/2003 Permit)

13. Short-term emissions from the operation of boilers #4 and #5 shall not exceed the limits specified below while burning natural gas:

Total Suspended Particulate	1.34 lbs/hr
PM-10	0.67 lbs/hr
Sulfur Dioxide	1.95 lbs/hr
Nitrogen Oxides (as NO ₂)	12.18 lbs/hr 0.10 lbs/10 ⁶ Btu
Carbon Monoxide	20.58 lbs/hr
Volatile Organic Compounds	0.49 lbs/hr

(9 VAC 5-80-110 and Condition 4 of 4/17/2003 Permit)

14. Combined emissions from the operation of boilers #4 and #5 shall not exceed the limits specified below while burning natural gas:

Total Suspended Particulate	3.2 tons/yr
PM-10	1.6 tons/yr
Sulfur Dioxide	4.7 tons/yr
Nitrogen Oxides (as NO ₂)	29.5 tons/yr
Carbon Monoxide	49.8 tons/yr
Volatile Organic Compounds	1.2 tons/yr

Compliance with NO₂ emission limit shall be based on NO_x CEM data. Compliance with the other emission limits contained in this condition shall be determined by compliance with Condition number III.A.5. Also, records of DEQ-approved emission factors, equations and throughput data shall be maintained to calculate annual emissions for each consecutive 12 month period.

(9 VAC 5-80-110 and Condition 15 of 4/17/2003 Permit)

15. Short-term emissions from the operation of boilers #4 and #5 shall not exceed the limits specified below while burning distillate oil:

Total Suspended Particulate	6.77 lbs/hr
PM-10	3.39 lbs/hr
Sulfur Dioxide	59.06 lbs/hr
Nitrogen Oxides (as NO ₂)	11.88 lbs/hr 0.10 lbs/10 ⁶ Btu
Carbon Monoxide	18.30 lbs/hr
Volatile Organic Compounds	0.48 lbs/hr

(9 VAC 5-80-110 and Condition 16 of 4/17/2003 Permit)

16. Combined emissions from the operation of boilers #4 and #5 shall not exceed the limits specified below while burning distillate oil:

Total Suspended Particulate	5.6 tons/yr
PM-10	2.8 tons/yr
Sulfur Dioxide	50.4 tons/yr
Nitrogen Oxides (as NO ₂)	9.8 tons/yr
Carbon Monoxide	15.1 tons/yr
Volatile Organic Compounds	0.4 tons/yr

Compliance with NO₂ emission limit shall be based on NO_x CEM data. Compliance with the other emission limits contained in this condition shall be determined by compliance with Condition number III.A.4. Also, records of DEQ-approved emission factors, equations and throughput data shall be maintained to calculate annual emissions for each consecutive 12 month period.

(9 VAC 5-80-110 and Condition 17 of 4/17/2003 Permit)

17. Emissions from the operation of boilers #1, #2, #3, #4 and #5 shall not exceed the limits specified below:

Total Suspended Particulate	20.37 lbs/hr	15.1 tons/yr
PM-10	10.19 lbs/hr	7.5 tons/yr
Sulfur Dioxide	227.18 lbs/hr	119.2 tons/yr
Nitrogen Oxides (as NO ₂)	63.68 lbs/hr	91.5 tons/yr
Carbon Monoxide	59.05 lbs/hr	106.6 tons/yr
Volatile Organic Compounds	4.11 lbs/hr	5.1 tons/yr

For boilers #3, #4 and #5, compliance with the NO₂ emission limit shall be based on NO_x CEM data. Otherwise, compliance with the emission limits contained in this condition shall be determined by compliance with Condition number III.A.4, A.5 and III.C.2. Also, records of DEQ-approved emission factors, equations and throughput data shall be maintained to calculate annual emissions for each consecutive 12 month period.

(9 VAC 5-80-110 and Condition 18 of 4/17/2003 Permit)

18. Visible emissions from each boiler stack shall not exceed 10% opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 20% opacity. This condition applies at all times except during start-up, shutdown, or malfunction.

(9 VAC 5-80-110 and Condition 19 of 4/17/2003 Permit)

19. Boiler emissions shall be controlled by proper operation and maintenance. Boiler operators shall be trained in the proper operation of all such equipment. Training shall consist of a review and familiarization of the manufacturer's operating instructions, at minimum.

(9 VAC 5-80-110 and Condition 29 of 4/17/2003 Permit)

B. Monitoring

1. Continuous opacity monitoring systems shall be installed on the stacks of boiler #1, #2, #3, #4, and #5 to measure and record opacity of emissions. Additionally, continuous emission monitors shall be installed on boiler stacks #3, #4, and #5 to measure and record the concentration of nitrogen oxide (NO_x). Each NO_x monitor shall be co-located with an O₂ monitor. Data from the existing CO₂ diluent monitor, co-located with the NO_x monitor, may be used in the event the O₂ monitor fails, malfunctions or during O₂ monitor maintenance periods. The O₂ monitor shall be returned to service as soon as possible. If the CO₂ monitor data is used instead of the O₂ monitor, the reason and duration of its use shall be included in the quarterly excess emission report. The opacity, NO_x, O₂ and CO₂ monitors shall be maintained, located, and calibrated in accordance with approved procedures (ref. 40 CFR 60.13). A thirty day notification, prior to the demonstration of continuous monitoring system's performance, and subsequent notifications shall be submitted to the Air Compliance Manager, Northern Virginia Regional Office.

(9 VAC 5-80-110 and Condition 22 of 4/17/2003 Permit)

2. A CEMS/COMS quality control program, which meets the requirements of 40 CFR 60.13 and Appendix B, or F, as appropriate, shall be implemented for all continuous monitoring systems.

(9 VAC 5-80-110 and Condition 23 of 4/17/2003 Permit)

C. Recordkeeping

1. The permittee shall obtain a certification from the fuel supplier with each shipment of distillate oil. Each fuel supplier certification shall include the following:
 - a. The name of the fuel supplier.
 - b. The date on which the distillate oil was received.
 - c. The volume of distillate oil delivered in the shipment.
 - d. A statement that the distillate oil complies with the ASTM D396-87, 89, 90, 92, 96, or 98 specifications for numbers 1 or 2 fuel oil, and
 - e. The sulfur content of the distillate oil.

(9 VAC 5-80-110 and Condition 7 of 4/17/2003 Permit)

2. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the Air Compliance Manager, Northern Virginia Regional Office. These records shall include, but are not limited to:
 - a. The monthly throughput of natural gas and the daily throughput of distillate oil for each boiler, and
 - b. All fuel supplier certifications.
 - c. DEQ-approved emission factors and equations used to calculate emissions from the boilers.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five years.

(9 VAC 5-80-110 and Condition 27 of 4/17/2003 Permit)

3. The permittee shall maintain records of the required training including a statement of time, place and nature of training provided. The permittee shall have available good written operating procedures and a maintenance schedule for the boilers. These procedures shall be based on the manufacturer's recommendations, at minimum. All records required by this condition shall be kept on site and made available for inspection by the DEQ.

(9 VAC 5-80-110 and Condition 29 of 4/17/2003 Permit)

D. Reporting

1. The permittee shall furnish written reports to the Air Compliance Manager, Northern Virginia Regional Office of excess emissions from any process monitored by a continuous monitoring system (COMS/CEMS) on a quarterly basis, postmarked no later than the 30th day following the end of the calendar quarter. These reports shall include, but are not limited to the following information:
 - a. The magnitude of excess emissions, any conversion factors used in the calculation of excess emissions, and the date and time of commencement and completion of each period of excess emissions;
 - b. Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the process, the nature and cause of the malfunction (if known), the corrective action taken or preventative measures adopted;
 - c. The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments; and
 - d. When no excess emissions have occurred or the continuous monitoring systems have not been inoperative, repaired or adjusted, such information shall be stated in that report.

(9 VAC 5-80-110 and Condition 25 of 4/17/2003 Permit)

2. The permittee shall submit fuel quality reports to the Air Compliance Manager, Northern Virginia Regional Office within 30 days after the end of each calendar quarter. If no shipments of distillate oil were received during the calendar quarter, the quarterly report shall consist of the dates included in the calendar quarter and a statement that no oil was received during the calendar quarter. If distillate oil was received during the calendar quarter, the reports shall include:
 - a. Dates included in the calendar quarter,
 - b. A copy of all fuel supplier certifications for all shipments of distillate oil received during the calendar quarter or a quarterly summary from each fuel supplier that includes the information specified in Condition III.C.1 for each shipment of distillate oil, and

- c. A signed statement from the owner or operator of the facility that the fuel supplier certifications or summaries of fuel supplier certifications represent all of the distillate oil burned or received at the facility.

(9 VAC 5-80-110, Condition 28 of 4/17/2003 Permit)

E. Testing

1. The permitted facility shall be constructed so as to allow for emissions testing and monitoring upon reasonable notice at any time, using appropriate methods. Test ports shall be provided at the appropriate locations or in accordance with the applicable performance specification (reference 40 CFR Part 60, Appendix B).
(9 VAC 5-50-30, 9 VAC 5-80-110 and Condition 24 of 4/17/2003 Permit)
2. If compliance testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the following methods in accordance with procedures approved by the DEQ as follows:

Pollutant	Test Method (40 CFR Part 60, Appendix A)
VOC	EPA Methods 18, 25, 25a
NO _x	EPA Method 7, 7E
SO ₂	EPA Method 6, 6C
CO	EPA Method 10
PM/PM-10	EPA Method 5, 17, 201a
Visible Emissions	EPA Method 9

(9 VAC 5-80-110)

IV. Fuel Burning Equipment Requirements – (emission units ID#24162-1, 24162-2) - Building 24162 - Camp Barrett Heating Plant

A. Limitations

1. For the two (2) International Boiler Works Model TJW-C-20 residual oil-fired boilers located in Building 24162, NO_x RACT includes new nozzles with at least a 10 percent reduction in NO_x emissions. In addition, the boilers shall be operated and maintained in accordance with manufacturer's specifications and good air pollution control practices.
(9 VAC 5-80-110 and Condition 9 of 5/24/2000 Permit)

2. The approved fuel for the boilers (EUID# 24162-1 and 24162-2) is residual oil. Residual oil is defined as fuel oil that meets the American Society for Testing and Materials specifications for fuel oil numbers 4, 5, or 6. A change in the fuel may require a permit to modify and operate.
(9 VAC 5-80-110 and Condition 3 of 6/28/2002 Permit)
3. The maximum sulfur content of the oil to be burned in the boiler shall not exceed 1.0 weight percent per shipment.
(9 VAC 5-80-110 and Condition 5 of 6/28/2002 Permit)
4. The boilers (EUID# 24162-1 and 24162-2) shall consume no more than 750,000 gallons of residual oil per year, calculated monthly as the sum of each consecutive 12 month period. This represents the combined total allowable throughput for both boilers.
(9 VAC 5-80-110 and Condition 4 of 6/28/2002 Permit)
5. Combined emissions from the operation of the boilers (EUID# 24162-1 and 24162-2) shall not exceed the limits specified below:

Total Suspended Particulate	4.3 lbs/hr	4.7 tons/yr
PM-10	3.7 lbs/hr	4.0 tons/yr
Sulfur Dioxide	48.6 lbs/hr	62.9 tons/yr
Nitrogen Oxides (as NO ₂)	22.0 lbs/hr	28.5 tons/yr
Carbon Monoxide	3.6 lbs/hr	1.9 tons/yr

Compliance with the emission limits contained in this condition shall be determined by compliance with Condition numbers IV.A.3, A.4, B.1 and B.2. Also, records of DEQ-approved emission factors, equations and throughput data shall be maintained to calculate annual emissions for each consecutive 12 month period.

(9 VAC 5-80-110 and Condition 6 of 6/28/2002 Permit)

6. Visible emissions from the boilers (EUID# 24162-1 and 24162-2) stacks shall not exceed 20% opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30% opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, or malfunction.
(9 VAC 5-80-110 and Condition 7 of 6/28/2002 Permit)

7. The emissions from the boilers (EUID# 24162-1 and 24162-2) shall be controlled by proper operation and maintenance of the combustion equipment. Boiler operators shall be trained in the proper operation of all such equipment. Training shall consist of a review and familiarization of the manufacturer's operating instructions, at minimum.
(9 VAC 5-80-110 and Condition 11 of 6/28/2002 Permit)

B. Monitoring and Recordkeeping

1. The permittee shall obtain a certification from the fuel supplier with each shipment of residual oil. Each fuel supplier certification shall include the following:
 - a. The name of the fuel supplier,
 - b. The date on which the oil was received,
 - c. The volume of residual oil delivered in the shipment,
 - d. The sulfur content of the oil,
(9 VAC 5-80-110 and Condition 5 of 6/28/2002 Permit)
2. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the Air Compliance Manager, Northern Virginia Region. These records shall include, but are not limited to:
 - a. The annual throughput of residual oil, calculated monthly as the sum of each consecutive 12 month period, and
 - b. All fuel supplier certifications,
 - c. Records of all oil shipments purchased indicating the supplier, volume of the shipment, and date on which the shipment was made.
 - d. DEQ-approved emission factors and equations used to calculate emissions from the boilers.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five years.
(9 VAC 5-80-110 and Condition 10 of 6/28/2002 Permit)

3. The permittee shall maintain records of the required training including a statement of time, place and nature of training provided. The permittee shall have available good written operating procedures and a maintenance schedule for the boilers. These procedures shall be based on the manufacturer's recommendations, at minimum. All records required by this condition shall be kept on site and made available for inspection by the DEQ.
(9 VAC 5-80-110 and Condition 11 of 6/28/2002 Permit)
4. Visible emission observations shall be used by the permittee to assist in determining whether the emission units are operating properly. Each of the boilers (EUID# 24162-1 and 24162-2) shall be observed during each calendar week it operates for normal visible emissions exhaust from the stack, excluding condensed water vapor. The results of the observations shall be recorded and records kept on site, available for review and be current for the most recent five years.
(9 VAC 5-80-110)
5. Whenever emissions from any of the boilers appear to be exceeding the normal visible emissions, the permittee shall check the boiler operating parameters, and if the parameters are not within normal range, then
 - a. Corrective action shall be taken to return the boiler into proper operation.
 - b. The visible emission observation shall be repeated to confirm proper operation.
 - c. A record of observations and the corrective actions shall be retained on site, available for review and be current for the most recent five years.
(9 VAC 5-80-110)
6. If initial corrective action does not appear to adequately reduce visible emissions from the boiler, then a visible emissions evaluation shall be conducted by certified personnel for at least 60 minutes in accordance with EPA Reference Method 9 (40 CFR Part 60, Appendix A) to demonstrate compliance with the opacity limit. If exceedance of the opacity limit is determined by the evaluation, then the permittee shall proceed as following:
 - a. Remove the emission unit from service and make necessary repairs and adjustments to bring the operation into compliance with the permit limit.
 - b. Document the maintenance and repairs performed on the unit.
 - c. Repeat the visible emissions evaluation to demonstrate compliance with the opacity limit before the emission unit is returned to service.

- d. In the event that the boiler emissions still cannot meet the opacity standard stated in the permit, appropriate action shall be agreed upon and implemented by Marine Corps Base, Quantico, and DEQ before the boiler can be returned to service.

The results of the visible emissions evaluation for the boiler(s) shall be available on site for inspection by the DEQ and be current for the most recent five years.
(9 VAC 5-80-110)

C. Testing

1. The permitted facility shall be constructed so as to allow for emissions testing and monitoring upon reasonable notice at any time, using appropriate methods. Test ports shall be provided at the appropriate locations if testing is required. Test ports shall be provided when requested at the exhaust stack for the boilers in accordance with the requirements of EPA Reference Method 1 (ref. 40 CFR Part 60, Appendix A).
(9 VAC 5-80-110 and Condition 8 of 6/28/2002 Permit)
2. If compliance testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the following methods in accordance with procedures approved by the DEQ as follows:

Pollutant	Test Method (40 CFR Part 60, Appendix A)
VOC	EPA Methods 18, 25, 25a
NO _x	EPA Method 7, 7E
SO ₂	EPA Method 6, 6C
CO	EPA Method 10
PM/PM-10	EPA Method 5, 17, 201a
Visible Emissions	EPA Method 9

(9 VAC 5-80-110)

V. Fuel Burning Equipment Requirements – (emission unit ID#2077, 24126, 27200, 27219, 27240-1, 3247-1, 3247-2, 3247-3 and 3500) - Other small No. 2 oil-fired or No. 2 oil/gas-fired boilers

A. Limitations

1. Emissions from the operation of each of the small No. 2 oil or gas/No. 2 oil-fired boilers shall not exceed the limits specified below:

Total Suspended Particulate/PM-10	0.3 lbs/10 ⁶ Btu	(9 VAC 5-40-900 A. 2.)
Sulfur Dioxide	1.06 lbs/10 ⁶ Btu	(9 VAC 5-40-930 A. 2.)

Compliance with the limits contained in this Condition shall be determined by compliance with Condition numbers V.B.1 and V.B.2.

(9 VAC 5-80-110)

2. Visible emissions from each of the boiler stacks shall not exceed 20% opacity, except for one, six-minute period in any one hour of not more than 30% opacity. Failure to meet the requirements of this condition because of the presence of water vapor shall not be a violation of this condition.
(9 VAC 5-50-80)
3. No owner or other person shall cause or permit to be discharged from any affected facility any nitrogen oxide emissions in excess of that resultant from using reasonably available control technology (RACT).
(9 VAC 5-40-310 and 9 VAC 5-80-110)
4. Routine replacement or addition of natural gas or distillate fuel oil-fired boilers between 1 to 10 million Btu/hour heat input, may not require an air permit but is subject to registration update and the limits stated in Conditions V. A.1, A.2, A.3, B.1 and B.2
(9 VAC 5-80-11, 9 VAC 5-20-160, 9 VAC 5-40-900 and 9 VAC 5-40-930)

B. Monitoring and Recordkeeping

1. For the small oil-fired boilers, application of reasonably available control technology (RACT) for nitrogen oxides (NO_x) shall be the operation and maintenance of the unit in accordance with manufacturer's specifications and good air pollution control practices. A copy of all relevant operation, maintenance, and specification documentation as provided by the manufacturer

for each unit and device shall be maintained on the premises of the facility. Each unit shall be operated and maintained in adherence with that documentation to the degree appropriate and practicable with the intention of minimizing NO_x emissions.

(9 VAC 5-80-110 and Condition 6 of the 5/16/2000 Permit)

2. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. For the boilers, a record shall be maintained on the fuel shipments, including fuel type, and sulfur content as provided by the supplier. These records shall be available on site for inspection by the DEQ and shall be current for the most recent five years.

(9 VAC 5-40-50 and 9 VAC 5-20-160)

VI. Process Equipment Requirements – (emission unit ID#3300, 2012, 3280, 3255-1, 3255-2, Sewage Plant and Water Plant) - Diesel Engine-Driven Emergency Generators

A. Limitations

1. The diesel engine-driven emergency generators shall be used only for providing power during interruption of service from the normal power supplier and for periodic testing.
(9 VAC 5-80-110 and 12/27/94 Permit for generator ID#3300)
2. The hours of operation for each emergency generator shall not exceed 500 hours per year, and a record must be kept of the operating hours.
(9 VAC 5-80-110 and 12/27/94 Permit for generator ID#3300)
3. Visible emissions from each of the diesel engines shall not exceed 20% opacity, except for one, six-minute period in any one hour of not more than 30% opacity.
(9 VAC 5-50-80 and 9 VAC 5-80-110)

B. Monitoring and Recordkeeping

1. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. For the generators, a record shall be maintained of the fuel shipments, including certified fuel type, quantity and sulfur content or else a monthly record of the number of hours of operation for each generator. These records shall be available on site for inspection by the DEQ and shall be current for the most recent five years.
(9 VAC 5-40-50 and 9 VAC 5-20-160)

2. Visible emission observations shall be used by the permittee to assist in determining whether the emission units are operating properly. Specifically, the diesel engine-driven generators with greater than 645 horsepower (or about 500 kilowatts) output capacity, shall be observed during their scheduled maintenance/test runs for normal visible emissions exhaust from the stack, excluding condensed water vapor. The results of the observations shall be recorded and records kept on site, available for review and be current for the most recent five years.
(9 VAC 5-80-110)
3. Whenever emissions from any of the diesel engines appear to be exceeding the normal visible emissions, the permittee shall check the emission unit operating parameters, and if the parameters are not within normal range, then
 - a. Corrective action shall be taken to return the engine to proper operation.
 - b. The visible emission observation shall be repeated to confirm proper operation.
 - c. A record of observations and the corrective actions shall be retained on site, available for review and be current for the most recent five years.
(9 VAC 5-80-110)
4. If initial corrective action does not appear to adequately reduce visible emissions from the diesel engine, then a visible emissions evaluation shall be conducted by certified personnel for at least 60 minutes in accordance with EPA Reference Method 9 (40 CFR Part 60, Appendix A) to demonstrate compliance with the opacity limit. If exceedance of the opacity limit is determined by the evaluation, then the permittee shall proceed as following:
 - a. Remove the emission unit from service and make necessary repairs and adjustments to bring the operation into compliance with the permit limit.
 - b. Document the maintenance and repairs performed on the unit.
 - c. Repeat the visible emissions evaluation to demonstrate compliance with the opacity limit before the emission unit is returned to service.
 - d. In the event that the diesel engine emissions still cannot meet the opacity standard stated in the permit, appropriate action shall be agreed upon and implemented by Marine Corps Base, Quantico, and DEQ before the diesel engine-driven generator can be returned to service.

The results of the visible emissions evaluation for the diesel engine-driven generator(s) shall be available on site for inspection by the DEQ and be current for the most recent five years.
(9 VAC 5-80-110)

VII. Process Equipment Requirements – (emission unit ID#2013) - Gas Compressor Engine

A. Limitations

1. Visible emissions from the exhaust stack of the gas compressor shall not exceed 20% opacity, except for one, six-minute period in any one hour of not more than 30% opacity.
(9 VAC 5-50-80 and 9 VAC 5-80-110)

B. Monitoring and Recordkeeping

1. The permittee shall maintain records as may be necessary to determine the emissions from the operation of the gas engine-driven compressor. The content and format of such records shall be arranged with the air compliance manager, Northern Virginia Regional Office. These records shall include, but are not limited to:
 - a. The annual throughput of natural gas, or else the number of hours of operation for the gas engine.
 - b. DEQ-approved emission factors and equations used to calculate the gas engine emissions.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five years.
(9 VAC 5-80-110, 9 VAC 5-40-50 and 9 VAC 5-20-160)

VIII. Process Equipment Requirements – (emission unit ID#4, 2013P, 2101, 2103, 2112, 3252) - Paint Spray Booths

A. Limitations

1. Emissions from the paint spray booths shall be controlled by proper operation and maintenance of the equipment. Particulate matter emissions shall be controlled by use of filters at the exhaust vents. All paint spray booth operators shall be trained in the proper operation of the equipment.
(9 VAC 5-80-110 and 9 VAC 5-170-160)
2. The facility-wide throughput of methylene chloride shall not exceed 1500 gallons per year, calculated monthly as the sum of the most recent 12 consecutive months.
(9 VAC 5-80-100)

B. Recordkeeping

1. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the Air Compliance Manager, Northern Virginia Region. These records shall include, but are not limited to:
 - a. Material Safety Data Sheets (MSDS) for the spray coating and cleaning materials, showing the solvent content (volatile organic compounds);
 - b. Annual throughput of the coating materials and cleaning solvents, including methylene chloride, based on the receipts of purchases and inventory records, that allow the annual throughput and emissions to be calculated monthly as the sum of each consecutive 12 month period;
 - c. DEQ-approved emission factors and equations used to calculate emissions from the spray booths.These records shall be available on site for inspection by the DEQ and shall be current for the most recent five years.
(9 VAC 5-80-110, 9 VAC 5-40-50 and 9 VAC 5-20-160)
2. The permittee shall have available good written operating procedures and a maintenance schedule for the process equipment, including associated air pollution control equipment. These procedures shall be based on the manufacturer's recommendations, at minimum. All records required by this condition shall be kept on site and made available for inspection by the DEQ.
(9 VAC 5-80-110 and 9 VAC 5-170-160)

IX. Process Equipment Requirements – (emission unit ID#PW) - Parts Washers

A. Limitations

1. No owner or other person shall use or permit the use of any open top (cold cleaner) degreaser unless such degreaser is equipped with a control method that will remove, destroy, or prevent the discharge into the atmosphere of at least 85% by weight of volatile organic compound emissions.
(9 VAC 5-40-3280.C.1)
2. Covers or enclosed remote reservoirs should be provided. Covers should be designed to be easily operated with one hand. The operation of certain covers may be of a type which is spring loaded, counterbalanced, or operated by a power system. Enclosed remote reservoirs should be designed such that they provide reduction effectiveness equivalent to a cover.
(9 VAC 5-40-3290.C.1.a)
3. External or internal drainage facilities should be provided to collect and return the solvent to a closed container or a solvent cleaning machine. If solvent volatility is greater than 0.6 psi measured at 100°F, then the drainage should be internal, so that parts are enclosed under cover while draining. The drainage facilities may be external for applications where an internal type cannot fit into the cleaning system.
(9 VAC 5-40-3290.C.1.b)
4. A permanent label summarizing the operating procedures should be placed in a conspicuous location on or near the degreaser. The operation procedures for the degreaser unit shall be clearly displayed by a permanent sign or label, which is located in a conspicuous location on, or near the unit.
(9 VAC 5-40-3290.C.1.c)
5. If used, the solvent spray should be a solid, fluid stream (not a fine, atomized or shower type spray) and the pressure which does not cause excessive splashing.
(9 VAC 5-40-3290.C.1.d)
6. Operating requirements are as follows:
 - a. Waste solvent should not be disposed of or transferred to another party, such that greater than 20% of the waste (by weight) can evaporate into the atmosphere. Store waste solvent only in closed containers.

- b. The degreaser cover (if one is required) should be closed whenever not handling parts in the cleaner.
- c. Cleaned parts should drain for at least 15 seconds or until dripping ceases.

(9 VAC 5-40-3290.C.2.a-c)

- 7. Disposal of waste solvent should be by reclamation or incineration.
(9 VAC 5-40-3290.D.1-2)
- 8. Routine replacement or addition of parts washers (non-halogenated cold cleaners/ degreasers) shall not require an air permit if the uncontrolled emission rate is less than 7 tons per year, 40 pounds per day and 8 pounds per hour. However, the change is subject to registration update and the limits stated in above Conditions VI.A.1 through A.7.
(9 VAC 5-80-11, 9 VAC 5-20-160 and 9 VAC 5-40-3290C)

B. Monitoring

- 1. The cold cleaner degreaser unit shall be inspected quarterly for condition and functionality.
(9 VAC 5-40.E.1 and 2, 9 VAC 5-80.110.E.2)

C. Recordkeeping

- 1. The owner of a stationary source shall keep records as may be necessary to determine its emissions. Such records shall be retained on site for inspection by the DEQ. These records shall be kept for the most recent five years.
(9 VAC 5-40-50.E and 9 VAC 5-80-110.F)
- 2. A log shall be kept of all inspections and servicing of the degreaser units.
(9 VAC 5-40-50.E and 9 VAC 5-80-110.F)

X. Process Equipment Requirements – (emission unit ID#2012-1, 2012-2, 24162-1, 24162-2, 3300) – (NSPS) Storage Tanks

A. Limitations

1. The permittee is authorized to store the specified materials in the following storage vessels:

Tank No.	Building Number	Tank Capacity (gallons)	Tank Contents (material stored)	Comments
2012-T1 2012-T2	2012	125,000 gallons, each	Distillate No. 2 fuel (heating oil)	Central Heating Plant
24162-T1 24162-T2	24162	20,000 gallons, each	Residual No. 6 fuel (heating oil)	Camp Barrett Heating Plant
3300-T1	3300	30,000 gallons	Diesel fuel	Emergency Generator use

A change in the materials stored may require a permit to modify and operate (9 VAC 5-80-110 and 9 VAC 5-50-410)

B. Recordkeeping

1. The permittee shall keep readily accessible records showing the dimensions of each fuel oil storage vessel and an analysis showing the capacity of each storage vessel, located at the Central Heating Plant (Building 2012), Camp Barrett Heating Plant (Building 24162) and at Building 3013. These records shall be kept for the life of the storage vessel, in accordance with the NSPS requirements stated in 40 CFR Part 60, Subpart Kb, and shall be made available for inspection by the DEQ.
(9 VAC 5-80-110, 9 VAC 5-50-410, Condition 26 of 7/1/2002 Permit, and Condition 9 of 6/28/2002 Permit)

XI. Process Equipment Requirements – (emission unit ID#27263-A, -B, -C, -D, -E, -F, -G and 27263-H) - Fuel Farm Storage Tanks

A. Limitations

1. The permittee is authorized to store the specified materials in the following above ground storage vessels located at the fuel farm (Building 27263):

Tank No.	Year tank built	Tank Capacity (gallons)	Tank Contents (material stored)	Comments
27263-A	1983	75,000 gallons	Low sulfur Diesel fuel (or No. 2 fuel oil)	Internal floating pan (roof)
27263-B	1983	75,000 gallons	Low sulfur Diesel fuel (or No. 2 fuel oil)	Internal floating pan (roof)
27263-C	1983	75,000 gallons	Jet Fuel (kerosene based) JP-8	Internal floating pan (roof)
27263-F	1983	75,000 gallons	Jet Fuel (kerosene based) JP-8	Internal floating pan (roof)
27263-D	1983	25,000 gallons	Low sulfur Diesel fuel (or No. 2 fuel oil)	Internal floating pan (roof)
27263-E	1983	25,000 gallons	Low sulfur Diesel fuel (or No. 2 fuel oil)	Internal floating pan (roof)
27263-G	1983	12,500 gallons	Reformulated Gasoline	Pressure relief valve on vent
27263-H	1983	25,000 gallons	Reformulated Gasoline	Pressure relief valve on vent

A change in the materials stored in the tanks or a modification of the tanks may require a permit or subject the facility to federal NSPS, Subpart Ka, or state regulations, Article 4-37.

(9 VAC 5-80-110 and 9 VAC 5-50-410)

2. The throughput of gasoline from the storage tanks, 27263-G and 27263-H, located at the fuel farm shall not exceed 4,000 gallons per working day when based on a 30-day rolling average. Average daily throughput means the average daily amount of gasoline pumped at a gasoline dispensing facility during the most recent 30-day period. Average daily throughput shall be calculated for the two most recent consecutive calendar years. If during this two-year period or any period thereafter, the average daily throughput exceeds 4,000 gallons per working day, the facility is no longer exempt from the provision of 9 VAC 5-40-5220 D and the associated control technology guidelines provided in 9 VAC 5-40-5230 D.

(9 VAC 5-80-110 and 9 VAC 5-40-5220 D)

B. Recordkeeping

1. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the Air Compliance Manager, Northern Virginia Region. These records shall include, but are not limited to:

- a. Type of fuel stored in each of the storage tanks and any changes in the fuels or to the tanks;
- b. Daily throughput of gasoline from the fuel farm tanks (27263-G and 27263-H), in order to calculate the 30-day rolling average;
- c. All fuel supplier certifications needed to verify items a. and b. above.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five years.
(9 VAC 5-80-110 and Condition 10 of 6/28/2002 Permit)

XII. Process Equipment Requirements – (emission unit ID#2056-2, 2056-3) - Building 2056 – Gasoline Service Station

A. Limitations

1. The gasoline dispensing facility at Building 2056, which is exclusively used by base military personnel, shall be subject to the requirements of Stage I and Stage II vapor control systems, if the average monthly throughput of gasoline exceeds 10,000 gallons.
(9 VAC 5-40-5220 E.3.)
2. For service stations subject to Stage I vapor control systems, no owner or other person shall transfer or permit the transfer of gasoline from any tank truck into any stationary storage tank unless such tank is equipped with a vapor control system that will remove, destroy or prevent the discharge into the atmosphere of at least 90% by weight of volatile organic compound emissions.
(9 VAC 5-40-5220 E.1.)
3. Achievement of the (Stage I) emission standard by use of the following methods will be acceptable to the board.
 - a. A submerged fill pipe;
 - b. A vapor control system with the vapor recovery portion consisting of one of the following:
 - (1) A vapor tight return line from the storage container to the tank truck which shall be connected before gasoline is transferred into the container;
 - (2) Any adsorption system or condensation system; or

- (3) Any system of equal or greater control efficiency to the above systems, provided such system is approved by the board.
- c. A vapor control system with the vapor balance portion meeting the following criteria:
 - (1) There should be no leaks in the tank truck's pressure vacuum relief valves and hatch covers, nor truck tanks, storage tanks and associated vapor return lines during loading or unloading operations;
 - (2) The pressure relief valves on storage containers and tank trucks should be set to release at no less than 0.7 psi or the highest possible pressure (in accordance with the following National Fire Prevention Association Standards: NFPA 385, Standard for Tank Vehicles for Flammable and Combustible Liquids Code; NFPA 30A, Automotive and Marine Service Station Code (see 9 VAC 5-50-21);
 - (3) Pressure in the vapor collection lines should not exceed tank truck pressure relief valve settings; and
 - (4) All loading and vapor lines should be equipped with fittings which make vapor tight connections and which close when disconnected.

(9 VAC 5-40-5230 E)

- 4. For service stations subject to the Stage II vapor control systems, no owner or other person shall transfer or permit the transfer of gasoline into the fuel tank of any motor vehicle at any affected gasoline dispensing facility unless the transfer is made using a certified Stage II vapor recovery system that is designed, operated, and maintained such that the vapor recovery system removes, destroys or prevents the discharge into the atmosphere of at least 95% by weight of volatile organic compound emissions.
(9 VAC 5-40-5220 F.1.)
- 5. Stage II vapor recovery systems shall be limited to those certified systems approved under the provisions of AQP-9, Procedures for Implementation of Regulations Covering Stage II Vapor Recovery Systems for Gasoline Dispensing Facilities (see 9 VAC 5-20-121), which utilize coaxial hoses and vapor check valves in the nozzle or remote vapor check valves which do not impede the performance of the functional tests required in Condition XII.B.1.b.
(9 VAC 5-40-5230 F.1.)

B. Testing, Monitoring, Recordkeeping and Reporting

1. In accordance with the provisions of AQP-9, Procedures for Implementation of Regulations Covering Stage II Vapor Recovery Systems for Gasoline Dispensing Facilities (see 9 VAC 5-20-121), owners of affected gasoline dispensing facilities shall be subject to the following requirements (except as already completed):
 - a. Register the Stage II system with the board and submit Stage II vapor recovery equipment specifications at least 90 days prior to installation of the Stage II vapor recovery system. Any repair or modification to an existing Stage II vapor recovery system that changes the approved configuration shall be reported to the board no later than 30 days after completion of such repair or modification.
 - b. Perform tests, before the equipment is made available for use by the public, on the entire Stage II vapor recovery system to ensure the proper functioning of nozzle automatic shut-off mechanisms and flow prohibiting mechanisms where applicable, and perform a pressure decay/leak test, a vapor space tie test, and a liquid blockage test. In cases where use of one of the test methods in AQP-9 is not feasible for a particular Stage II vapor recovery system, the owner may, upon approval of the board, use an alternative test method.
 - c. No later than 15 days after system testing is completed, submit to the board documentation showing the results of the tests outlined in provision b. above.
 - d. Ensure that the Stage II vapor recovery system is vapor tight by performing a pressure decay/leak test and a liquid blockage test at least every five years, upon major system replacement or modification, or if requested by the board after evidence of a system malfunction which compromises the efficiency of the system.
 - e. Notify the board at least two days prior to Stage II vapor recovery system testing as required by provisions b. and d. above.
 - f. Conspicuously post operating instructions for the vapor recovery system on each gasoline dispensing pump which includes the following information:
 - (1) A statement, as described in Part III F 1 of AQP-9 (see 9 VAC 5-20-121), describing the benefits of the Stage II vapor recovery system.
 - (2) A clear description of how to correctly dispense gasoline with the vapor recovery nozzles.

- (3) A warning that repeated attempts to continue dispensing gasoline, after the system has indicated that the vehicle fuel tank is full (by automatically shutting off) may result in spillage or recirculation of gasoline.
 - (4) A telephone number to report problems experienced with the vapor recovery system to the board.
- g. Promptly and conspicuously post "Out Of Order" signs on any nozzle associated with any part of the vapor recovery system which is defective if use of that nozzle would allow escape of gasoline vapors to the atmosphere. "Out of order" signs shall not be removed from affected nozzles until said system has been repaired.
- h. Provide adequate training and written instructions for facility personnel to assure proper operation of the vapor recovery system.
- i. Perform routine maintenance inspections of the Stage II vapor recovery system on a daily and monthly basis and record the monthly inspection results as specified in Part III E of AQP-9 (see 9 VAC 5-20-121).
- j. Maintain records on site, in a form and manner acceptable to the board, of operator training, system registration and equipment approval, and maintenance, repair and testing of the system. Original documents are maintained on-site according to the requirements set forth in AQP-9. Records shall be retained for a period of at least five years, and shall be made immediately available for inspection by the board upon request.

(9 VAC 5-80-110 and 9 VAC 5-40-5220 F.6.)

XIII. Facility Wide Conditions

A. Limitations

1. All facility equipment which do not have more stringent visible emission limits stated in this permit, shall not exceed 20% opacity; except during one six-minute period in any one hour in which visible emissions shall not exceed 30% opacity for new sources (constructed after March 17, 1972 or reconstructed after December 10, 1976) and 60% for existing sources.
(9 VAC 5-80-110, 9 VAC 5-40-80 and 9 VAC 5-50-80)
2. At all times, including periods of startup, shutdown, soot blowing and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.
(9 VAC 5-80-110, 9 VAC 5-40-20E and 9 VAC 5-50-20E)

XIV. Insignificant Emission Units

The following emission units at the facility are identified in the application as insignificant emission units under 9 VAC 5-80-720:

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
AST 4	Used Oil storage tank	9 VAC 5-80-720B	VOC	500 gallons
AST 25	Gasoline storage tank	9 VAC 5-80-720B	VOC	3000 gallons
AST 15	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	300 gallons
AST 69	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	500 gallons
AST 659	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	125 gallons
AST 660	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	1,000 gallons
AST 1303	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	3,000 gallons
AST 1792	Diesel fuel tank	9 VAC 5-80-720B	VOC	250 gallons
AST 2012C	Used Oil storage tank	9 VAC 5-80-720B	VOC	250 gallons
AST 2033	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	500 gallons
AST 2038	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	500 gallons
AST 2043	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	250 gallons
AST 2047	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	500 gallons
UST 2056-F	Diesel fuel tank	9 VAC 5-80-720B	VOC	6,000 gallons
AST 2077	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	1,000 gallons
AST 2089	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	500 gallons

AST 2101	Used Oil storage tank	9 VAC 5-80-720B	VOC	500 gallons
AST 2112	Used Oil storage tank	9 VAC 5-80-720B	VOC	500 gallons
AST 2117A	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	1,000 gallons
AST 2117B	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	1,000 gallons
AST 2130	Used Oil storage tank	9 VAC 5-80-720B	VOC	500 gallons
AST 2172	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	550 gallons
AST 2200	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	300 gallons
AST 2200A	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	1,000 gallons
AST 2201A	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	500 gallons
AST 2202	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	500 gallons
AST 2204	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	500 gallons
AST 2207	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	500 gallons
AST 2603	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	500 gallons
AST 2657	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	500 gallons
AST 2666	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	500 gallons
AST 2819	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	250 gallons
AST 2995	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	500 gallons
AST 3063A	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	500 gallons
AST 3066A	Gasoline storage tank	9 VAC 5-80-720B	VOC	550 gallons
AST 3066B	Diesel fuel tank	9 VAC 5-80-720B	VOC	250 gallons
AST 3149A	Gasoline storage tank	9 VAC 5-80-720B	VOC	250 gallons
AST 3149B	Diesel fuel tank	9 VAC 5-80-720B	VOC	250 gallons
AST 3201	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	500 gallons
AST 3230	Diesel fuel tank	9 VAC 5-80-720B	VOC	1,000 gallons
AST 3247	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	2,000 gallons
AST 3254A	Gasoline storage tank	9 VAC 5-80-720B	VOC	250 gallons
AST 3254B	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	500 gallons
AST 3255	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	6,000 gallons
AST 3303	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	500 gallons
AST 3454C	Used Oil storage tank	9 VAC 5-80-720B	VOC	500 gallons
AST 3500A	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	10,000 gallons
AST 3500B	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	300 gallons
AST 3500E	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	275 gallons
AST 5103D	100 Low Lead aviation Gasoline AVGAS tank	9 VAC 5-80-720B	VOC	10,000 gallons
AST 5121	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	500 gallons
AST 5156A	Used Aviation Gasoline AVGAS storage tank	9 VAC 5-80-720B	VOC	6,000 gallons
AST 5156B	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	250 gallons
AST 24008	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	500 gallons
AST 24009A	Diesel fuel tank	9 VAC 5-80-720B	VOC	10,000 gallons
AST 24009D	Used Oil storage tank	9 VAC 5-80-720B	VOC	500 gallons
AST 24010	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	2,000 gallons
AST 24015	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	6,000 gallons
AST 24141	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	2,000 gallons
UST 24142A	Gasoline storage tank	9 VAC 5-80-720B	VOC	4,000 gallons
UST 24142B	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	1,000 gallons
AST 24144	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	1,000 gallons
AST 24147	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	500 gallons
AST 24148	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	2,000 gallons
AST 24150	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	550 gallons
AST 24151	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	1,000 gallons

AST 24162	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	125 gallons
AST 24162A	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	250 gallons
AST 26102	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	1,000 gallons
AST 26107	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	250 or 1,000 gallons
AST 26109	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	2,000 gallons
AST 26145A	Used Oil storage tank	9 VAC 5-80-720B	VOC	500 gallons
AST 26146	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	1,000 gallons
UST 26156A	Gasoline storage tank	9 VAC 5-80-720B	VOC	4,000 gallons
AST 27001	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	1,000 gallons
AST 27002A	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	2,000 gallons
UST 27002C	Gasoline storage tank	9 VAC 5-80-720B	VOC	10,000 gallons
AST 27002D	Used Oil storage tank	9 VAC 5-80-720B	VOC	250 gallons
AST 27054A	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	2,000 gallons
AST 27054C	Used Oil storage tank	9 VAC 5-80-720B	VOC	500 gallons
AST 27067B	Diesel fuel tank	9 VAC 5-80-720B	VOC	300 gallons
AST 27200	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	2,000 gallons
AST 27202	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	500 gallons
AST 27210A	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	500 gallons
AST 27210B	Used Oil storage tank	9 VAC 5-80-720B	VOC	500 gallons
AST 27212A	Gasoline storage tank	9 VAC 5-80-720B	VOC	250 gallons
AST 27212B	Diesel fuel tank	9 VAC 5-80-720B	VOC	250 gallons
AST 27219A	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	2,000 gallons
AST 27240	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	2,000 gallons
AST 27241	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	1,000 gallons
AST 27263M	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	300 gallons
AST 27266	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	2,000 gallons
AST 27400	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	1,000 gallons
AST 27500A	Diesel fuel tank	9 VAC 5-80-720B	VOC	250 gallons
AST 27500B	Gasoline storage tank	9 VAC 5-80-720B	VOC	1,000 gallons
AST 28003	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	1,000 gallons
AST 28009	#2 Fuel Oil storage tank	9 VAC 5-80-720B	VOC	250 gallons
AST fuel farm	Diesel 32 fuel oil tank	9 VAC 5-80-720B	VOC	2,000 gallons
AST 27940C	Waste oil storage tank	9 VAC 5-80-720B	VOC	500 gallons
AST 27972	Waste oil storage tank	9 VAC 5-80-720B	VOC	500 gallons
LR 2012	Diesel loading rack	9 VAC 5-80-720B	VOC	emissions < 5 tons/yr
LR 27263	Gasoline loading rack	9 VAC 5-80-720B	VOC	emissions < 5 tons/yr
OWS 2012	Oil-Water Separator	9 VAC 5-80-720B	VOC	emissions < 5 tons/yr
OWS 2013	Oil-Water Separator	9 VAC 5-80-720B	VOC	emissions < 5 tons/yr
OWS 2102A	Oil-Water Separator	9 VAC 5-80-720B	VOC	emissions < 5 tons/yr
OWS 2112	Oil-Water Separator	9 VAC 5-80-720B	VOC	emissions < 5 tons/yr
OWS 3016	Oil-Water Separator	9 VAC 5-80-720B	VOC	emissions < 5 tons/yr
OWS 3045	Oil-Water Separator	9 VAC 5-80-720B	VOC	emissions < 5 tons/yr 500 gallons
OWS 3056	Oil-Water Separator	9 VAC 5-80-720B	VOC	emissions < 5 tons/yr
OWS 3185	Oil-Water Separator	9 VAC 5-80-720B	VOC	emissions < 5 tons/yr
OWS 24007	Oil-Water Separator	9 VAC 5-80-720B	VOC	emissions < 5 tons/yr
OWS 24009-1	Oil-Water Separator	9 VAC 5-80-720B	VOC	emissions < 5 tons/yr 800 gallons
OWS 24009-2	Oil-Water Separator	9 VAC 5-80-720B	VOC	emissions < 5 tons/yr
OWS 26145	Oil-Water Separator	9 VAC 5-80-720B	VOC	emissions < 5 tons/yr
OWS 27002	Oil-Water Separator	9 VAC 5-80-720B	VOC	emissions < 5 tons/yr

OWS 27004B	Oil-Water Separator	9 VAC 5-80-720B	VOC	emissions < 5 tons/yr
OWS 27054	Oil-Water Separator	9 VAC 5-80-720B	VOC	emissions < 5 tons/yr
OWS 27263	Oil-Water Separator	9 VAC 5-80-720B	VOC	emissions < 5 tons/yr
OWS 28000	Oil-Water Separator	9 VAC 5-80-720B	VOC	emissions < 5 tons/yr
	MCB-2 Landfill	9 VAC 5-80-720B	Non-methane organic compounds (NMOC)	Emissions less than 5 tons per year
	Russell Road Landfill	9 VAC 5-80-720B	Non-methane organic compounds (NMOC)	Emissions less than 5 tons per year
	Old Landfill	9 VAC 5-80-720B	Non-methane organic compounds (NMOC)	Emissions less than 5 tons per year
	CARPENTRY OPER.	9 VAC 5-80-720B	Particulate Matter	emissions < 5 tons/yr
	Stationary Saws	9 VAC 5-80-720B	Particulate Matter	emissions < 5 tons/yr
	Stationary Sanders	9 VAC 5-80-720B	Particulate Matter	emissions < 5 tons/yr
	Wastewater Treatment	9 VAC 5-80-720B	VOC	emissions < 5 tons/yr
	(78) Aggregated Distillate Oil-fired boilers less than 1 million Btu/hr each	9 VAC 5-80-720C	NOx, VOC, CO, PM, SOx	Each rated less than 1 million Btu/hour
	(12) Aggregated Natural Gas Fired Boilers each rated at less than 10 mil.Btu/hr	9 VAC 5-80-720C	NOx, VOC, CO, PM	Each rated less than 10 million Btu/hour
	(87) Aggregated Propane-fired boilers each rated at less than 10 mil. Btu/hr	9 VAC 5-80-720C	NOx, VOC, CO, PM	Each rated less than 10 million Btu/hour
	(21) Aggregated diesel fueled reciprocating emergency generators	9 VAC 5-80-720C	NOx, VOC, CO, PM SOx	Each rated less than 100 horsepower
Bldg-15	Emergency diesel gen.	9 VAC 5-80-720C	NOx, VOC, CO, PM	112 bhp or 75 KW
Bldg-659	Emergency diesel gen.	9 VAC 5-80-720C	NOx, VOC, CO, PM	298 bhp or 200 KW
Bldg-660	Emergency diesel gen.	9 VAC 5-80-720C	NOx, VOC, CO, PM	447 bhp or 300 KW
Bldg-1303	Emergency diesel gen.	9 VAC 5-80-720C	NOx, VOC, CO, PM	447 bhp or 300 KW
Bldg-2004	Emergency diesel gen.	9 VAC 5-80-720C	NOx, VOC, CO, PM	149 bhp or 100 KW
Bldg-2033	Emergency diesel gen.	9 VAC 5-80-720C	NOx, VOC, CO, PM	447 bhp or 300 KW
Bldg-2038	Emergency diesel gen.	9 VAC 5-80-720C	NOx, VOC, CO, PM	224 bhp or 150 KW
Bldg-2047	Emergency diesel gen.	9 VAC 5-80-720C	NOx, VOC, CO, PM	164 bhp or 110 KW
Bldg-2113	Emergency diesel gen.	9 VAC 5-80-720C	NOx, VOC, CO, PM	149 bhp or 100 KW
Bldg-2200-1	Emergency diesel gen.	9 VAC 5-80-720C	NOx, VOC, CO, PM	149 bhp or 100 KW
Bldg-2200-2	Emergency diesel gen.	9 VAC 5-80-720C	NOx, VOC, CO, PM	522 bhp or 350 KW
Bldg-2201	Emergency diesel gen.	9 VAC 5-80-720C	NOx, VOC, CO, PM	224 bhp or 150 KW
Bldg-2204	Emergency diesel gen.	9 VAC 5-80-720C	NOx, VOC, CO, PM	112 bhp or 75 KW
Bldg-2666	Emergency diesel gen.	9 VAC 5-80-720C	NOx, VOC, CO, PM	149 bhp or 100 KW
Bldg-2818	Emergency diesel gen.	9 VAC 5-80-720C	NOx, VOC, CO, PM	231 bhp or 155 KW
Bldg-2995	Emergency diesel gen.	9 VAC 5-80-720C	NOx, VOC, CO, PM	149 bhp or 100 KW
Bldg-3201	Emergency diesel gen.	9 VAC 5-80-720C	NOx, VOC, CO, PM	149 bhp or 100 KW
Bldg-3247	Emergency diesel gen.	9 VAC 5-80-720C	NOx, VOC, CO, PM	522 bhp or 350 KW
Bldg-3250	Emergency diesel gen.	9 VAC 5-80-720C	NOx, VOC, CO, PM	149 bhp or 100 KW
Bldg-3252	Emergency diesel gen.	9 VAC 5-80-720C	NOx, VOC, CO, PM	149 bhp or 100 KW
Bldg-3950	Emergency diesel gen.	9 VAC 5-80-720C	NOx, VOC, CO, PM	224 bhp or 150KW
Bldg-5109-1	Emergency diesel gen.	9 VAC 5-80-720C	NOx, VOC, CO, PM	298 bhp or 200 KW

Bldg-5109-2	Emergency diesel gen.	9 VAC 5-80-720C	NOx, VOC, CO, PM	298 bhp or 200 KW
Bldg-5121	Emergency diesel gen.	9 VAC 5-80-720C	NOx, VOC, CO, PM	134 bhp or 90 KW
Bldg-24008	Emergency diesel gen.	9 VAC 5-80-720C	NOx, VOC, CO, PM	268 bhp or 180 KW
Bldg-24150	Emergency diesel gen.	9 VAC 5-80-720C	NOx, VOC, CO, PM	149 bhp or 100 KW
Bldg-24162	Emergency diesel gen.	9 VAC 5-80-720C	NOx, VOC, CO, PM	149 bhp or 100 KW
Bldg-27001	Emergency diesel gen.	9 VAC 5-80-720C	NOx, VOC, CO, PM	149 bhp or 100 KW
Bldg-27054	Emergency diesel gen.	9 VAC 5-80-720C	NOx, VOC, CO, PM	149 bhp or 100 KW
Bldg-27229	Emergency diesel gen.	9 VAC 5-80-720C	NOx, VOC, CO, PM	186 bhp or 129 KW
Bldg-27263	Emergency diesel gen.	9 VAC 5-80-720C	NOx, VOC, CO, PM	298 bhp or 200 KW

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9 VAC 5-80-110.

XV. Permit Shield & Inapplicable Requirements

Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of Applicability
40 CFR 60 Subpart XX (§60.500 - §60.504)	Standards of Performance for Bulk Gasoline Terminals	Loading racks at bulk gasoline terminals that deliver liquid product into gasoline tank trucks (facility not a terminal)
40 CFR Part 63 Subpart T (§63.460 - §63.469) and 9 VAC 5 Chapter 60	Halogenated Solvent Cleaning (MACT)	Halogenated cleaning solvent (not used in the cold cleaning degreasers)
40 CFR Part 63 Subpart MMMM- (§63.3880-§63.3968) final rule to be incorporated in 9 VAC 5 Chapter 60	Surface Coating of Miscellaneous Metal Parts and Products	Voluntary limit to keep facility below regulatory applicability; specifically Methylene Chloride from paint stripping operation

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by the administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.
 (9 VAC 5-80-140)

XVI. General Conditions

A. Federal Enforceability

All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.

(9 VAC 5-80-110 N)

B. Permit Expiration

This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless a timely and complete renewal application consistent with 9 VAC 5-80-80 has been submitted to the Department by the owner, the right of the facility to operate shall be terminated upon permit expiration.

1. The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.
2. If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9 VAC 5 Chapter 80, until the Board takes final action on the application under 9 VAC 5-80-150.
3. No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9 VAC 5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9 VAC 5 Chapter 80.
4. If an applicant submits a timely and complete application under section 9 VAC 5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9 VAC 5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.
5. The protection under subsections F 1 and F 5 (ii) of section 9 VAC 5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant to section 9 VAC 5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.

(9 VAC 5-80-80 B, C and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)

C. Recordkeeping and Reporting

1. All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:
 - a. The date, place as defined in the permit, and time of sampling or measurements.
 - b. The date(s) analyses were performed.
 - c. The company or entity that performed the analyses.
 - d. The analytical techniques or methods used.
 - e. The results of such analyses.
 - f. The operating conditions existing at the time of sampling or measurement.

(9 VAC 5-80-110 F)
2. Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.
(9 VAC 5-80-110 F)
3. The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than **March 1** and **September 1** of each calendar year. This report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:
 - a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31.
 - b. All deviations from permit requirements. For purposes of this permit, deviations include, but are not limited to:
 - (1) Exceedance of emissions limitations or operational restrictions;
 - (2) Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or compliance assurance monitoring which indicates an exceedance of emission limitations or operational restrictions; or,

(3) Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.

- c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that "no deviations from permit requirements occurred during this semi-annual reporting period."

(9 VAC 5-80-110 F)

D. Annual Compliance Certification

Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than **March 1** of each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

1. The time period included in the certification. The time period to be addressed is January 1 to December 31.
2. The identification of each term or condition of the permit that is the basis of the certification.
3. The compliance status.
4. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance.
5. Consistent with subsection 9 VAC 5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period.
6. Such other facts as the permit may require to determine the compliance status of the source.

One copy of the annual compliance certification shall be sent to EPA at the following address:

Clean Air Act Title V Compliance Certification (3AP00)
U. S. Environmental Protection Agency, Region III
1650 Arch Street
Philadelphia, PA 19103-2029.

(9 VAC 5-80-110 K.5)

E. Permit Deviation Reporting

The permittee shall notify the Air Compliance Manager, Northern Virginia Regional Office within four daytime business hours, after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to General Condition XVI.C.3. of this permit.

(9 VAC 5-80-110 F.2 and 9 VAC 5-80-250)

F. Failure/Malfunction Reporting

In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall, as soon as practicable but no later than four daytime business hours, notify the Air Compliance Manager, Northern Virginia Regional Office, by facsimile transmission, telephone or telegraph of such failure or malfunction and shall within two weeks provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Air Compliance Manager, Northern Virginia Regional Office.

1. The emission units that have continuous monitors subject to 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not subject to the two week written notification.
2. The emission units subject to the reporting and the procedure requirements of 9 VAC 5-40-50 C and the procedures of 9 VAC 5-50-50 C are the Central Heating Plant boilers listed below:
 - a. Todd Combustion boiler, rated at 84 million Btu/hour heat input (ID#2012-3).
 - b. Todd Combustion boiler, rated at 114 million Btu/hour heat input (ID#2012-4)
 - c. Todd Combustion boiler, rated at 114 million Btu/hour heat input (ID#2012-5).

3. Each owner required to install a continuous monitoring system subject to 9 VAC 5-40-41 or 9 VAC 5-50-410 shall submit a written report of excess emissions (as defined in the applicable emission standard) to the board for every calendar quarter. All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter and shall include the following information:
 - a. The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h) or 9 VAC 5-40-41 B 6, any conversion factors used, and the date and time of commencement and completion of each period of excess emissions;
 - b. Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the source. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted;
 - c. The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments; and
 - d. When no excess emissions have occurred or the continuous monitoring systems have not been inoperative, repaired or adjusted, such information shall be stated in the report.
4. All emission units not subject to 9 VAC 5-40-50 C and 9 VAC 5-50-50 C must make written reports within 14 days of the malfunction occurrence.

(9 VAC 5-20-180 C, 9 VAC 5-40-50, and 9 VAC 5-50-50)

G. Severability

The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.

(9 VAC 5-80-110 G.1)

H. Duty to Comply

The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

(9 VAC 5-80-110 G.2)

I. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
(9 VAC 5-80-110 G.3)

J. Permit Action for Cause

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause as specified in 9 VAC 5-80-110 L, 9 VAC 5-80-240 and 9 VAC 5-80-260. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.
(9 VAC 5-80-110 G & L, 9 VAC 5-80-240 and 9 VAC 5-80-260)
2. Such changes that may require a permit modification and/or revisions include, but are not limited to, the following:
 - a. Erection, fabrication, installation, addition, or modification of an emissions unit (which is the source, or part of it, which emits or has the potential to emit any regulated air pollutant), or of a source, where there is, or there is the potential of, a resulting emissions increase;
 - b. Reconstruction or replacement of any emissions unit or components thereof such that its capital cost exceeds 50% of the cost of a whole new unit;
 - c. Any change at a source which causes emission of a pollutant not previously emitted, an increase in emissions, production, throughput, hours of operation, or fuel use greater than those allowed by the permit, or by 9 VAC 5-80-11, unless such an increase is authorized by an emission cap; or any change at a source which causes an increase in emissions resulting from a reduction in control efficiency, unless such an increase is authorized by an emissions cap;
 - d. Any reduction of the height of a stack or of a point of emissions, or the addition of any obstruction which hinders the vertical motion of exhaust;
 - e. Any change at the source which affects its compliance with conditions in this permit, including conditions relating to monitoring, recordkeeping, and reporting;
 - f. Addition of an emissions unit which qualifies as insignificant by emissions rate (9 VAC 5-80-720 B) or by size or production rate (9 VAC 5-80-720 C);

- g. Any change in insignificant activities, as defined by 9 VAC 5-80-90 D.1.a(1) and by 9 VAC 5-80-720 B and 9 VAC 5-80-720 C.

(9 VAC 5-80-110 G, 9 VAC 5-80-110 J, 9 VAC 5-80-240, and 9 VAC 5-80-260)

K. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege.
(9 VAC 5-80-110 G.5)

L. Duty to Submit Information

1. The permittee shall furnish to the board, within a reasonable time, any information that the board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the board along with a claim of confidentiality.
(9 VAC 5-80-110 G.6)
2. Any document (including reports) required in a permit condition to be submitted to the board shall contain a certification by a responsible official that meets the requirements of 9 VAC 5-80-80 G.
(9 VAC 5-80-110 K.1)

M. Duty to Pay Permit Fees

The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-300 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-350. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by April 15 of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department.
(9 VAC 5-80-110 H and 9 VAC 5-80-340 C)

N. Fugitive Dust Emission Standards

During the operation of a stationary source or any other building, structure, facility or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming

airborne. Such reasonable precautions may include, but are not limited, to the following:

1. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;
2. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;
3. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or other similar operations;
4. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and
5. The prompt removal of spilled or traced dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9 VAC 5-40-90 and 9 VAC 5-50-90)

O. Startup, Shutdown, and Malfunction

At all times, including periods of startup, shutdown, soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(9 VAC 5-50-20)

P. Alternative Operating Scenarios

Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80 Article 1.

(9 VAC 5-80-110 J)

Q. Inspection and Entry Requirements

The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

1. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.
2. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
3. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
4. Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9 VAC 5-80-110 K.2)

R. Reopening For Cause

The permit shall be reopened by the board if additional federal requirements become applicable to a major source with a remaining permit term of three or more years. Such a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9 VAC 5-80-80 F.

1. The permit shall be reopened if the board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
2. The permit shall be reopened if the administrator or the board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
3. The permit shall not be reopened by the board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-110 D.

(9 VAC 5-80-110 L)

S. Permit Availability

Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.
(9 VAC 5-80-150 E)

T. Transfer of Permits

1. No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, or from one piece of equipment to another.
(9 VAC 5-80-160)
2. In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)
3. In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the board of the change in source name within 30 days of the name change and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)

U. Malfunction as an Affirmative Defense

1. A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the requirements of paragraph 2 of this condition are met.
2. The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:
 - a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.
 - b. The permitted facility was at the time being properly operated.
 - c. During the period of the malfunction the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit.

- d. The permittee notified the board of the malfunction within two working days following the time when the emission limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction, any steps taken to mitigate emissions, and corrective actions taken. The notification may be delivered either orally or in writing. The notification may be delivered by electronic mail, facsimile transmission, telephone, or any other method that allows the permittee to comply with the deadline. This notification fulfills the requirements of 9 VAC 5-80-110 F 2 b to report promptly deviations from permit requirements. This notification does not release the permittee from the malfunction reporting requirement under 9 VAC 5-20-180 C.
3. In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof. The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any requirement applicable to the source.
4. The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any applicable requirement.

(9 VAC 5-80-250)

V. Permit Revocation or Termination for Cause

A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9 VAC 5 Chapter 80 Article 1. The board may suspend, under such conditions and for such period of time as the board may prescribe, any permit for any of the grounds for revocation or termination or for any other violations of these regulations.

(9 VAC 5-80-260)

W. Duty to Supplement or Correct Application

Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.

(9 VAC 5-80-80 E)

X. Stratospheric Ozone Protection

If the permittee handles or emits one or more Class I or II substance subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection)

of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.
(40 CFR Part 82, Subparts A - F)

Y. Accidental Release Prevention

If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined under 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.
(40 CFR Part 68)

Z. Changes to Permits for Emissions Trading

No permit revision shall be required, under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.
(9 VAC 5-80-110 I)

AA. Emissions Trading

Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:

1. All terms and conditions required under 9 VAC 5-80-110 except subsection N shall be included to determine compliance.
2. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.
3. The owner shall meet all applicable requirements including the requirements of 9 VAC 5-80-50 through 9 VAC 5-80-300.

(9 VAC 5-80-110 I)

BB. General Conformity Requirements

The permittee shall comply with the General Conformity requirements of 40 CFR Part 93, Subpart B and 9 VAC Chapter 160.
(40 CFR 93, Subpart B, 9 VAC Chapter 160)

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